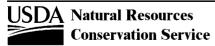
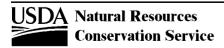
Norman County, Minnesota

[Absence of an entry indicates that a conservation tree/shrub suitability group is not assigned]

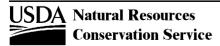
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Ad: Alluvial land, occasionally flooded	85	3
Fargo, depressional	5	
Colvin, depressional	5	
Cashel	5	
Af: Alluvial land, frequently flooded	85	10
Marsh	8	
Water	7	
Ar: Arveson	85	2k
Ulen	5	
Rockwell	5	
Hamar	5	
As: Hamar, depressional	45	2
Arveson, depressional	45	10
Rockwell	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
As:		
Markey	3	
Kratka	3	
Marsh	1	
Aw: Wheatville	45	1k
Augsburg	45	2k
Glyndon	2	
Colvin	2	
Borup	2	
Bearden	2	
Rockwell	1	
Grimstad	1	
BaA:		
Barnes	85	3
Swenoda	3	
Soils that have sandy material at a depth of 36 to 70 inches	3	



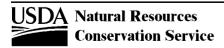
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
BaA:		
Kittson	3	
Barnes, eroded	3	
Waukon	2	
Poorly drained soils	1	
BaB:		
Barnes	85	3
Waukon	3	
Swenoda	3	
Kittson	3	
Barnes, eroded	3	
Sverdrup	1	
Soils that have sandy material at a depth of 36 to 70 inches	1	
Poorly drained soils	1	
BaB2:		
Barnes, eroded	85	3
Swenoda	2	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
BaB2:		
Sverdrup	2	
Langhei	2	
Kittson	2	
Hamerly	2	
Barnes	2	
Waukon	1	
Soils that have sandy material at a depth of 36 to 70 inches	1	
Poorly drained soils	1	
BaC2:		
Barnes, eroded	85	3
Waukon	3	
Swenoda	3	
Sverdrup	3	
Barnes	3	
Langhei	2	



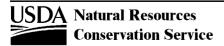
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
BaC2: Soils that have sandy material at a depth of 40 to 70 inches	1	
BbB2: Barnes, eroded	65	3
Langhei, eroded	25	3
Swenoda	2	
Sverdrup	2	
Soils that have a thicker and darker surface layer	2	
Darnen	2	
Waukon	1	
Very poorly drained soils	1	
BcA: Bearden	85	1k
Wheatville	3	
Hegne	3	
Glyndon	3	
Fargo	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
BcA:		
Colvin	3	
BcB:		
Bearden Bearden	85	1k
Wahpeton	4	
Fargo	4	
Bearden, eroded	4	
Soils where slopes are more than 6 percent	3	
BcC2:		
Bearden, eroded	85	1k
Wahpeton	4	
Fargo	4	
Bearden	4	
Soils where slopes are more than 12 percent	3	
D4.		
Bf: Bearden	50	1k
Fargo	30	2



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Bf:		
Hegne	10	
Colvin	10	
Bo:		
Borup, depressional	85	2k
Colvin, depressional	8	
Soils tha have a highly organic, mucklike surface layer	7	
Вр:		
Glyndon	45	1k
Borup	45	2k
Wheatville	2	
Soils that have a loam or silt loam surface over fine sand	2	
Rockwell	2	
Grimstad	2	
Augsburg	2	
Br:		
Breaks, rarely flooded	45	10



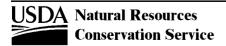
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Br:		
Alluvial land, very frequently flooded	45	10
Fargo	2	
Cashel	2	
Alluvial land, occasionally flooded	2	
Alluvial land, frequently flooded	2	
Wahpeton	1	
Bearden	1	
CaA:		
Cashel, occasionally flooded	85	1k
Alluvial land, occasionally flooded	8	
Fargo, depressional	7	
CaC:		
Cashel, occasionally flooded	85	1k
Fargo	8	
Wahpeton	7	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Cb:		
Cathro	85	2h
Vallers	3	
Soils with more than 10 inches organic material	3	
Soils with less than 16 inches of organic surface material	3	
Roliss	3	
Flom	3	
Cn:		
Colvin	85	2k
Hegne	3	
Fargo	3	
Borup	3	
Bearden	3	
Augsburg	3	
Co: Colvin, depressional	85	2k
Fargo, depressional	8	

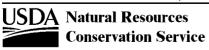


Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Co:		
Borup, depressional	7	
DaB:		
Darnen	85	3
Soils with coarser textured colluvium	3	
Soils that are calcareous at or near the surface	3	
Kittson	3	
Flom	3	
Barnes	3	
Du:		
Dune land	85	10
Hamar	5	
Flaming	5	
Arveson	5	
FaA:		
Fargo	85	2
Wahpeton	5	



Norman County, Minnesota

Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
FaA:		
Hegne	5	
Colvin	5	
FaB:		
Fargo	85	2
Wahpeton	4	
Cashel	4	
Bearden	4	
Hegne	3	
FcA:		
Fargo	85	2
Wahpeton	3	
viking-like	3	
Hegne, depressional	3	
Fargo, depressional	3	
Colvin	3	
FcB:		
Fargo	85	2
Wahpeton	4	



This report shows only the major soils in each map unit

Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
FcB:		
Hegne-like	4	
Cashel	4	
Bearden	3	
Fd: Fargo, depressional	85	2
Cashel	8	
Colvin, depressional	7	
Ff: Flaming, wind eroded	90	1s
Ulen	2	
Soils that have a surface layer more than 16 inches thick	2	
Poppleton-like	2	
Hamar	2	
Arveson	2	
Fh: Hamar	30	2



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Fh:		
Flaming	30	1s
Arveson	30	2k
Ulen	2	
Towner	2	
Poppleton	2	
Kratka	2	
Dune Land	2	
Fm:		
Flom	85	2
Vallers	4	
Soils that have deposits of colluvium	4	
Kittson	4	
Soils that contain less sand and more silt than Flom soils	3	
_		
Fv: Vallers, depressional	45	2k
Flom, depressional	45	2



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Fv:		
Marsh	5	
Cathro	5	
FxA: Foxhome	85	6g
Sioux	3	
Roliss	3	
Mavie	3	
Kittson	3	
Hangaard	3	
GIA: Glyndon	85	1k
Wheatville	4	
Borup	4	
Augsburg	4	
Bearden	3	
GIB: Glyndon	85	1k



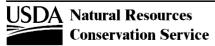
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
GIB:		
Borup	5	
Bearden	5	
Alluvial land, occasionally flooded	5	
Gn: Glyndon, wind eroded	85	1k
Wheatville	4	
Glyndon	4	
Borup	4	
Augsburg	3	
Gp: Pits, gravel	100	
Gr: Grimstad	85	1k
Wheatville	3	
Ulen	3	
Swenoda	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Gr: Soils with no well-defined zone of carbonate accumulation	3	
Rockwell	3	
Ha: Hamar	85	2
Ulen	3	
Soils with a dark-colored surface less than 10 inches thick	3	
Kratka	3	
Flaming	3	
Arveson	3	
HeA: Hamerly	85	1k
паттепу	00	IK
Vallers	4	
Soils with more than 24 inches of sorted material over till	4	
Kittson	4	
Soils with a dark-colored surface layer less than 7 inches	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
HeA:		
HeB: Hamerly	85	1k
Vallers	4	
Soils with more than 24 inches of sorted material over till	4	
Soils with a dark-colored surface layer less than 7 inches	4	
Langhei	3	
Hm: Hamerly	55	1k
Vallers	35	2k
Swenoda	2	
Langhei	2	
Kittson, uplands	2	
Flom	2	
Barnes	2	
Hn: Hangaard	85	2k



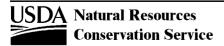
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Hn:		
Syrene	3	
Sioux	3	
Mavie	3	
Hamar	3	
Arveson	3	
Ho: Hegne	50	2k
Fargo	30	2
Colvin	7	
Bearden	7	
Viking	6	
Hv: Hegne	50	2k
Viking	30	2k
Colvin	7	
Bearden	7	



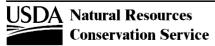
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Hv:		
Fargo	6	
INT:		
Water, intermittent	100	
KsA:		
Kittson	85	1
Soils with less than 10 inch surface and dark subsoil	3	
Roliss	3	
Hamerly	3	
Foxhome	3	
Swenoda	2	
Soils with more than 35 percent clay in the subsoil	1	
KsC:		
Kittson	85	1
Soils with more than 35 percent clay in the subsoil	3	
Soils with less than 10 inch surface and dark subsoil	3	
Hamerly	3	



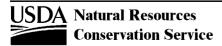
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
KsC:		
Foxhome	3	
Swenoda	2	
Roliss	1	
KtA:		
Kittson, uplands	85	1
Soils with less than 10 inches of surface and dark subsoil	3	
Soils that contain more than 5 percent coarse fragments	3	
Hamerly	3	
Barnes	3	
Swenoda	2	
Poorly drained soils	1	
KtB:		
Kittson, uplands	85	1
Soils with less than 10 inches of surface and dark subsoil	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
KtB: Soils that contain more than 5 percent coarse fragments	3	
Hamerly	3	
Barnes	3	
Swenoda	2	
Poorly drained soils	1	
LbC2: Langhei, eroded	50	3
Barnes, eroded	40	3
Waukon	2	
Swenoda	2	
Sverdrup	2	
Darnen	2	
Soils with a calcareous surface layer and darker colored	1	
Flom	1	
LbD2: Langhei, eroded	55	3



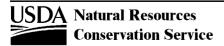
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
LbD2:		
Barnes, eroded	35	3
Waukon	2	
Swenoda	2	
Sverdrup	2	
Darnen	2	
Soils with a calcareous surface layer and darker colored	1	
Flom	1	
LbE: Langhei	60	3
Barnes	30	3
Maddock	3	
Darnen	3	
Waukon	2	
Sioux	2	
M-W: Water, miscellaneous	100	



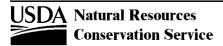
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
M-W:		
MaA:		
Maddock	90	7
Sverdrup	3	
Sioux	3	
Swenoda	2	
Soils with a dark surface less than 10 inches thick	1	
Hamar	1	
MaC:		
Maddock	90	7
Sverdrup	3	
Sioux	3	
Swenoda	2	
Soils with a dark surface less than 10 inches thick	1	
Hamar	1	
Me:		
Markey	85	2h



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Me: Soils with less than 16 inches organic material over sands	3	
Soils with an organic surface, underlain by sands, then loam	3	
Hamar, depressional	3	
Arveson, depressional	3	
Rockwell, depressional	2	
Kratka, depressional	1	
Mh: Marsh	100	10
Mm: Mavie	85	2k
Vallers	3	
Syrene	3	
Soils that lack a strongly or very strongly calcareous layer	3	
Roliss	3	
Rockwell	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
PB: Pits, borrow	100	
Po: Poppleton	90	1s
Ulen	2	
Towner	2	
Swenoda	2	
Hamar	2	
Flaming	2	
Rc: Rockwell	85	2k
Vallers	3	
Soils with a loamy fine sand surface and less calcareous	3	
Soils where gravelly pockets replace the sand layer	3	
Grimstad	3	
Arveson	3	
Rk:		



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Rk: Rockwell, depressional	45	10
Kratka, depressional	45	10
Hamar	3	
Arveson	3	
Roliss, depressional	2	
Markey	2	
Ro: Roliss	85	2k
Viking	3	
Vallers	3	
Rockwell	3	
Mavie	3	
Kittson	3	
Rs: Roliss, depressional	85	2k
Vallers	3	
Rockwell, depressional	3	



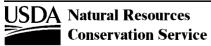
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Rs:		
Marsh	3	
Kratka, depressional	3	
Cathro	3	
Ru: Rondeau	85	10
Soils with herbaceous material between 36 and 51 inches	5	
Soils that have no lake sediments	5	
Marsh	5	
Sc: Seelyeville	85	2h
Soils with organic accumulations between 36 and 50 inches	5	
Soils with higher undisturbed and rubbed fiber content	5	
Marsh	5	
SdA: Sioux	90	7



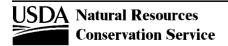
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
SdA:		
Soils with a surface layer more than 14 inches thick	2	
Soils that have a subsoil of loam	2	
Maddock	2	
Hangaard	2	
Foxhome	2	
SdB: Sioux	90	7
Soils with a surface layer more than 14 inches thick	2	
Soils that have a subsoil of loam	2	
Maddock	2	
Hangaard	2	
Foxhome	2	
SgA: Sioux	90	7
Maddock	5	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
SgA: Foxhome	5	
T OXIONIO	3	
SgC:		
Sioux	90	7
Maddock	5	
Foxhome	5	
SmE:		
Sioux	45	7
Maddock	45	7
Sverdrup	4	
Swenoda	3	
Areas of steep, medium- textured till soils	3	
SnA:		
Sverdrup	85	6g
Swenoda	4	
Sioux	4	
Maddock	4	
Soils with a dark-colord surface layer less than 10 inches	3	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
SnA:		
SnC:		
Sverdrup	85	6g
Swenoda	4	
Sioux	4	
Maddock	4	
Soils with a dark-colord surface layer less than 10 inches	3	
SwA:		
Swenoda	85	5
Towner	4	
Soils that lack underlyig finer textured material	4	
Grimstad	4	
Soils with more than 35 percent clay in underlying layers	3	
SwC:		
Swenoda	85	5
Towner	5	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
SwC: Soils with a dark-colored surface layer less than 16 inches	5	
Grimstad	5	
Sy: Syrene	85	2k
Mavie	5	
Hangaard	5	
Arveson	5	
To: Towner	85	5
Swenoda	4	
Grimstad	4	
Flaming	4	
Soils with a dark-colored surface less than 16 inches	3	
UIA:		
Ulen	85	1k
Grimstad	4	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
UIA:		
Flaming	4	
Arveson	4	
Soils that have a high content of very fine sand	3	
Un:		
Ulen, wind eroded	85	1k
Ulen	4	
Flaming	4	
Arveson	4	
Poppleton	3	
Va:		
Vallers	85	2k
Soils with a surface of well-sorted silt loams 24 inches	3	
Roliss	3	
Hamerly	3	
Flom	3	
Soils with less than an 8 inch surface layer	2	

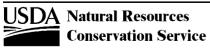


Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Va:		
Soils with a very stong calcareous surface layer	1	
Vd: Vallers, depressional	85	2k
Roliss	3	
Marsh	3	
Flom	3	
Cathro	3	
Soils with 24 inches or more of water-modified silt loam	2	
Soils with a surface of dark-colored colluvial material	1	
Vk: Viking	85	2k
Vallers	4	
Roliss	4	
Rockwell	4	
Mavie	3	



Norman County, Minnesota

Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
Vk:		
W:		
Water	100	
WaA:		
Wahpeton	85	1
Fargo	5	
Cashel	5	
Bearden	5	
WaB: Wahpeton	85	1
Fargo	5	
Cashel	5	
Bearden	5	
WaC:		
Wahpeton	85	1
Soils with a thinner dark- colored layers and more calcareous	10	
Fargo	5	
WkA:		
Waukon	85	3

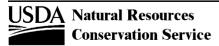


This report shows only the major soils in each map unit

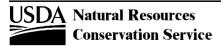
Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
WkA:		
Barnes	3	
Swenoda	2	
Soils with sandy underlying material below 40 inches	2	
Soils with a thicker or darker surface layer	2	
Parnell	2	
Kittson	2	
Flom	2	
WkB:		
Waukon	85	3
Barnes	3	
Waukon, eroded	2	
Swenoda	2	
Soils with sandy underlying material below 40 inches	2	
Parnell	2	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
WkB: Flom	2	
Darnen	2	
WkB2:		
Waukon, eroded	85	3
Swenoda	3	
Soils with sandy underlying material below 40 inches	3	
Langhei	3	
Barnes	3	
Flom	2	
Parnell	1	
WkC:		
Waukon	85	3
Barnes	3	
Waukon, eroded	2	
Swenoda	2	
Soils with sandy underlying material below 40 inches	2	



Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
WkC:		
Parnell	2	
Langhei	2	
Flom	2	
WkD: Waukon	85	3
Swenoda	3	
Soils with sandy underlying material below 40 inches	3	
Langhei	3	
Barnes	3	
Waukon, eroded	2	
Flom	1	
Wm:		
Wheatville	85	1k
Glyndon	5	
Borup	5	
Augsburg	5	



Norman County, Minnesota

Map symbol and soil name	Pct. of map unit	Conservation tree/shrub suitability group
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Wm:

